

I. Amendments to the Claims are reflected in the listing of claims which begins on page 3.

II. Remarks begins on page 11 of this paper.

I. Amendments to the Claims:

This listing of claims replaces without prejudice all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) An apparatus for use with a body to be tested for faults using a luminescent material, said apparatus comprising:

at least one LED to emit ~~capable of emitting~~ radiation to excite said luminescent material; and

a power supply connected to said at least one LED to provide said at least one LED with electricity, and whereinto cause said at least one LED to emit radiation having most of its energy a substantial portion of the wavelength of radiation emitted from each LED falls within a visible range of from 395 to 415 nanometers, and

wherein the beam angle of radiation emitted from each LED is less than or equal to 30 degrees radiation emitted from said at least one LED includes visible light within a range of from 395 to 415 nanometers that is visually distinguishable from the excited luminescent material.

Claim 2 and 3 (Previously Cancelled)

Claim 4 (Previously Presented) The apparatus of claim 1, further comprising a housing having an open end, wherein said at least one LED is attached to a substrate and is mounted within said housing adjacent the open end, and said at least one LED is oriented to emit radiation through the open end.

Claim 5 (Previously Cancelled)

Claim 6 (Previously Presented) The apparatus of claim 4, wherein said at least one LED is from 12 to 40 LEDs in a cluster, and said power supply is connected within the housing.

Claim 7 (Previously Presented) The apparatus of claim 6, wherein said power supply supplies electricity to said LEDs in an amount greater than the rated voltage of said LEDs.

Claim 8 (Previously Presented) The apparatus of claim 6, further comprising a lens mounted to said open end for focusing said radiation emitted by said LEDs.

Claim 9 (Previously Presented) The apparatus of claim 8, wherein said lens comprises a Fresnel lens.

Claim 10 (Previously Presented) The apparatus of claim 8, wherein said lens provides a usable beam of radiation for a distance 5 to 10 feet from said lens.

Claim 11 (Previously Presented) The apparatus of claim 8, wherein said lens is removably mounted to said open end.

Claim 12 (Previously Presented) The apparatus of claim 6, wherein said power supply comprises a battery.

Claims 13 and 14 (Previously Cancelled)

Claim 15 (Currently Amended) A method for detecting a fault in a body, comprising the steps of:

applying a luminescent material to the body in a manner to concentrate the luminescent material in a pattern indicative of the location of a fault in the body;

activating at least one LED to emit ~~ultraviolet~~ radiation to excite the luminescent material, and to cause said

at least one LED to emit radiation having most of its energy ~~and~~
~~a substantial portion of the wavelength of radiation emitted~~
~~from the LED falling within a visible range of from 395 to 415~~
~~nanometers, and wherein the beam angle of radiation emitted~~
~~from the LED is less than or equal to 30 degrees;~~

shining the radiation transmitted from ~~the~~ said at
least one LED onto the body to excite the luminescent material;
and

detecting a fault by the fluorescence of the
luminescent material indicative of the location of the fault in
the body, wherein the radiation emitted from said at least one
LED includes visible light within a range of from 395 to 415
nanometers that is visually distinguishable from the excited
luminescent material.

Claim 16 (Previously Cancelled)

Claim 17 (Previously Presented) The method of
claim 15, further comprising the step of focusing said
radiation emitted from said array using a lens.

Claim 18 (Previously Presented) The method of
claim 17, wherein said lens comprises a Fresnel lens.

Claim 19 (Currently Amended) A method of using ~~an~~
at least one LED for detecting a fault in a body, comprising:

applying a luminescent material to the body in a
manner to concentrate the luminescent material in a pattern
indicative of the location of a fault in the body;

activating said at least one LED to emit radiation
to excite the luminescent material, and to cause said at least
one LED to emit radiation having most of its energy a
~~substantial portion of the wavelength of radiation emitted from~~
~~the LED falling within a~~ visible range of from 395 to 415
nanometers, ~~and wherein the beam angle of radiation emitted~~
~~from the LED is less than or equal to 30 degrees;~~

shining at least a portion of the radiation
emitted from said LED onto the body to excite the luminescent
material; and

detecting a fault by the fluorescence of the
luminescent material indicative of the location of the fault in
the body, wherein the radiation emitted from said at least one
LED includes visible light within a range of from 395 to 415
nanometers that is visually distinguishable from the excited
luminescent material.

Claims 20-22 (Previously Cancelled)

Claim 23 (Currently Amended) A kit comprising:

a lamp including at least one LED housed within said lamp, said at least one LED being capable of emitting generating ultraviolet radiation to excite a luminescent material,; and said at least one LED emitting radiation having most of its energy a substantial portion of the wavelength of radiation generated from the LED falling within a visible range of from 395 to 415 nanometers, and ~~wherein the beam angle of radiation generated from the LED is less than or equal to 30 degrees;~~ and

a luminescent material capable of absorbing at least a portion of said radiation, converting said radiation to energy, and emitting said radiation at a visible wavelength, wherein said radiation emitted from the at least one LED includes visible light within a range of from 395 to 415 nanometers that is visually distinguishable from the excited luminescent material.

Claim 24 (Previously Cancelled)

Claim 25 (New) The apparatus of claim 1 wherein the beam angle of radiation emitted from the apparatus is less than or equal to 30 degrees.

Claim 26 (New) The method of claim 15 wherein the beam angle of radiation emitted from the LED is less than or equal to 30 degrees.

Claim 27 (New) The method of claim 26 wherein the LED is 10 feet or less from the body to be tested.

Claim 28 (New) The method of claim 26 wherein the LED is from 5 feet to 10 feet from the body to be tested.

Claim 29 (New) The method of claim 26 wherein the LED is 2 feet or less from the body to be tested.

Claim 30 (New) The method of claim 19 wherein the beam angle of radiation emitted from the LED is less than or equal to 30 degrees.

Claim 31 (New) The method of claim 30 wherein the LED is 10 feet or less from the body to be tested.

Claim 32 (New) The method of claim 30 wherein the LED is from 5 feet to 10 feet from the body to be tested.

Claim 33 (New) The method of claim 30 wherein the LED is 2 feet or less from the body to be tested.

Claim 34 (New) The apparatus of claim 23 wherein the beam angle of radiation emitted from the apparatus is less than or equal to 30 degrees.